

What is claimed is:

1. A transmitting circuit using plural transmission frequency bands, comprising:

- an input stage amplifier for amplifying an input  
5 signal;  
an operating condition setting circuit for controlling  
an optimally amplified frequency band by setting an  
operating condition of the input stage amplifier;  
a high-pass filter and a low-pass filter connected to  
10 an output of the input stage amplifier;  
a high-frequency-band last stage amplifier, disposed  
corresponding to the high-pass filter, for amplifying a  
signal of frequency band passed by the high-pass filter;  
and  
15 a low-frequency-band last stage amplifier, disposed  
corresponding to the low-pass filter, for amplifying a  
signal of frequency band passed by the low-pass filter.

2. The transmitting circuit as set forth in claim 1,  
wherein the input stage amplifier is composed of

20 transistors, and

wherein the operating condition setting circuit sets a  
bias voltage of the transistors.

3. The transmitting circuit as set forth in claim 1,  
wherein the high-pass filter and the high-frequency-

25 band last stage amplifier correspond to the DCS 1800

frequency band, and

wherein the low-pass filter and the low-frequency-band

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last stage amplifier correspond to the GSM 900 frequency band.

4. The transmitting circuit as set forth in claim 1,  
wherein the input stage amplifier is a class C  
5 amplifier.

5. The transmitting circuit as set forth in claim 1,  
wherein all the amplifiers and filters are formed on  
the same semiconductor die.

6. The transmitting circuit as set forth in claim 1,  
10 wherein each of the amplifiers is produced by GaAs  
process.

7. A communication terminal unit, comprising:  
an antenna for transmitting and receiving a signal;  
a receiving circuit for amplifying the signal received  
15 by the antenna;

a demodulating circuit for demodulating the signal  
received from the receiving circuit;

a base band signal processing circuit for processing  
the demodulated signal;

20 a modulating circuit for modulating the signal  
processed by the base band signal processing circuit;

a transmitting circuit for amplifying the modulated  
signal to transmit, the transmitting circuit being as set  
forth in one of claims 1 to 6;

25 means for designating a transmission frequency band to  
the operating condition setting circuit of the transmitting  
circuit; and

a switching circuit for selectively connecting the receiving circuit or the transmitting circuit to the antenna.

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